



SEQUENCE LISTING

<110> Urry, Dan

<120> Acoustic Absorption Polymers and Their Methods of Use

<130> BERL025/01US

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<160> 47

<170> PatentIn version 3.0

<210> 1

<211> 5

<212> PRT

<213> Artificial

<220>

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<220>

<221> PEPTIDE

<222> (1)..(5)

<400> 1

Val Pro Gly Val Gly

1 5

<210> 2

<211> 4

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<213> Artificial

<220>

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<220>

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<222> (1)..(4)

<400> 2

Val Pro Gly Gly

1

<210> 3
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<400> 3

Gly Gly Val Pro
 1

<210> 4
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 <222> (1)..(4)

<400> 4

Gly Gly Phe Pro
 1

<210> 5
 <211> 4
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 <213> Artificial

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<400> 5

Gly Gly Ala Pro

1

<210> 6

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<220>

<221> VARIANT

<222> (2)..(4)

<223> Residue at position 2 is V, E, F, Y or K

Residue at position 4 is V, E, F or I

<400> 6

Gly Xaa Gly Xaa Pro

1

5

<210> 7

<211> 6

<212> PRT

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<220>

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<220>

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<222> (1)..(6)

<400> 7

Ala Pro Gly Val Gly Val

1

5

<210> 8

<211> 35

<212> PRT

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<220>

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<220>

<221> PEPTIDE

<222> (1)..(35)

<400> 8

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Glu	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 9

<211> 35

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(35)

<400> 9

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Glu	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Val	Gly	Phe	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 10

<211> 35

<212> PRT

<213> Artificial

<220>

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<220>

<221> PEPTIDE
 <222> (1)..(35)

<400> 10

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 11
 <211> 35
 <212> PRT
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<220>
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<220>
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 <222> (1)..(35)

<400> 11

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Glu	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 12
 <211> 35
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<220>
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 <222> (1)..(35)

<400> 12

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 13

<211> 65

<212> PRT

<213> Artificial

<220>

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<220>

<221> PEPTIDE

<222> (1)..(65)

<400> 13

Gly Val Gly Ile Pro Gly Phe Gly Glu Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Phe Gly Phe Pro Gly Phe Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Phe Gly Glu Pro Gly Glu Gly Phe Pro Gly Val Gly
35 40 45

Val Pro Gly Phe Gly Phe Pro Gly Phe Gly Ile Pro Gly Val Gly Val
50 55 60

Pro
65

<210> 14

<211> 35

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(35)

<400> 14

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Lys	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 15

<211> 35

<212> PRT

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<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(35)

<400> 15

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Lys	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Val	Gly	Phe	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 16

<211> 35

<212> PRT

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<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE
 <222> (1)..(35)

<400> 16

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 17
 <211> 35
 <212> PRT
 <213> Artificial

<220>
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<220>
 <221> PEPTIDE
 <222> (1)..(35)

<400> 17

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Lys	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 18
 <211> 35
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(35)

<400> 18

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 19

<211> 35

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(35)

<400> 19

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Val Pro Gly Val
20 25 30

Gly Val Pro
35

<210> 20

<211> 35

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(35)

<400> 20

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val
 20 25 30

Gly Val Pro
 35

<210> 21
 <211> 5
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> VARIANT
 <222> (4)..(4)
 <223> Residue at position 4 is modified to have
 an electroresponsive side chain

<400> 21

Val Pro Gly Xaa Gly
 1 5

<210> 22
 <211> 5
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(5)

<400> 22

Ile Pro Gly Val Gly
 1 5

<210> 23

<211> 11
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> VARIANT
 <222> (6)..(6)
 <223> Residue at position 6 is S, T or Y

<400> 23

Gly	Val	Gly	Val	Pro	Xaa	Gly	Val	Gly	Val	Pro
1				5					10	

<210> 24
 <211> 5
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> VARIANT
 <222> (2)..(4)
 <223> Residue at position 2 is V, E, F, Y, K, S or T
 Residue at position 4 is V, E, F, I, S, T or Y
 At least one of residues at positions 2 or 4 is S, T or Y

<400> 24

Gly	Xaa	Gly	Xaa	Pro
1				5

<210> 25
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>

<221> PEPTIDE
 <222> (1)..(30)

<400> 25

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
 20 25 30

<210> 26
 <211> 66
 <212> DNA
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> misc_structure
 <222> (1)..(66)

<400> 26
 gaggatccag gcgttggggg accgggtggt ggcgatccgg gttaaagggtg cccgggggtg
 60

gtgtgc
 66

<210> 27
 <211> 66
 <212> DNA
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> misc_structure
 <222> (1)..(66)

<400> 27
 ctggatccaa cgcctgggaa tccgaaaccc ggaaagccta caccgggcac accaacgccc
 60

gggaca

66

<210> 28
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(10)

<400> 28

Gly Val Gly Val Pro Gly Tyr Gly Val Pro
 1 5 10

<210> 29
 <211> 45
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(45)

<400> 29

Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro
 35 40 45

<210> 30
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 30

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Glu	Gly	Ile	Pro	Gly
1				5					10					15	

Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro
		20					25						30

<210> 31
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 31

Gly	Glu	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Glu	Gly	Ile	Pro	Gly
1				5					10					15	

Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro
		20					25						30

<210> 32
 <211> 45
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(45)

<400> 32

Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Lys Gly Ile Pro Gly Val Gly Ile Pro
 35 40 45

<210> 33
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 33

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
 20 25 30

<210> 34
 <211> 30
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(30)

<400> 34

Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro

```

                20                      25                      30

<210>  35
<211>  110
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  PEPTIDE
<222>  (1)..(110)

<400>  35

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1              5              10              15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
              20              25              30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
              35              40              45

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
              50              55              60

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
65              70              75              80

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
              85              90              95

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
              100             105             110

<210>  36
<211>  110
<212>  PRT
<213>  Artificial

<220>
<223>  This is a synthetic sequence.

<220>
<221>  VARIANT
<222>  (107)..(107)

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<223> Residue at position 107 is associated with an SO4 ion

<400> 36

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Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1           5           10           15
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
          20           25           30
Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
          35           40           45
Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
          50           55           60
Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
65           70           75           80
Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
          85           90           95
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
          100          105          110

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<210> 37

<211> 60

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(60)

<400> 37

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Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1           5           10           15
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
          20           25           30
Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
          35           40           45

```

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 50 55 60

<210> 38

<211> 60

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> VARIANT

<222> (58)..(58)

<223> Residue at position 58 is associated with an SO4 ion

<400> 38

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
 35 40 45

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 50 55 60

<210> 39

<211> 45

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(45)

<400> 39

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 35 40 45

<210> 40

<211> 45

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(45)

<400> 40

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 35 40 45

<210> 41

<211> 30

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(30)

<400> 41

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro

20

25

30

<210> 42

<211> 30

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> VARIANT

<222> (28)..(28)

<223> Residue at position 28 is associated with an SO4 ion

<400> 42

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly
1				5				10						15	

Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly	Ile	Pro
		20					25					30	

<210> 43

<211> 15

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>

<221> PEPTIDE

<222> (1)..(15)

<400> 43

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly	Ile	Pro
1				5				10						15

<210> 44

<211> 15

<212> PRT

<213> Artificial

<220>

<223> This is a synthetic sequence.

<220>
 <221> VARIANT
 <222> (13)..(13)
 <223> Residue at position 13 is associated with an SO4 ion

<400> 44

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly	Ile	Pro
1				5					10					15

<210> 45
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> PEPTIDE
 <222> (1)..(10)

<400> 45

Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly
1				5					10

<210> 46
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> Residue at position 9 is associated with an SO4 ion

<400> 46

Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly
1				5					10

<210> 47
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> This is a synthetic sequence.

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> Residue at position 9 is associated with an MgSO4 ion

<400> 47

Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly
1				5					10